

INTERNATIONAL SEARCH REPORT

Interr Application No
PCT/GB2004/005078

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12Q1/68

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, Sequence Search, EMBASE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>IACOMINO GIUSEPPE ET AL: "Transcriptional response of a human colon adenocarcinoma cell line to sodium butyrate"</p> <p>BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS,</p> <p>vol. 285, no. 5,</p> <p>3 August 2001 (2001-08-03), pages 1280-1289, XP002321871</p> <p>ISSN: 0006-291X</p> <p>Transcriptional response of a human colon adenocarcinoma HT29 cell line to sodium butyrate</p> <p>the whole document</p> <p>-----</p> <p>-/--</p>	1-18

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

29 April 2005

Date of mailing of the international search report

11-07-2005

Name and mailing address of the ISA

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PCT/GB2004/005078

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 03/058021 A (XANTOS BIOMEDICINE AG; KOENIG-HOFFMAN, KERSTIN; KAZINSKI, MICHAEL; SCH) 17 July 2003 (2003-07-17) Nucleic acids associated with apoptosis; methods for identifying substances which activate or inhibit said (poly)peptides. SEQ ID 356 has a %ID to SEQ ID 1 of the underlying application claims 1,33; sequence 356 & DATABASE Geneseq [Online] 7 September 2001 (2001-09-07), "Human adenine nucleotide translocator-1 (ANT-1) cDNA sequence." retrieved from EBI accession no. GSN:AAS05901 Database accession no. AAS05901</p>	19-49
X	<p>----- WO 01/85944 A (MITOKOR; ANDERSON, CHRISTEN, M; DAVIS, ROBERT, E; CLEVANGER, WILLIAM;) 15 November 2001 (2001-11-15) Methods for identifying substances which activate or inhibit adenine nucleotide translocator protein; ID No. 1 has a 100% identity (ungapped) to the first sequence of Table 1 in a 894 nt overlap claims 75-84; sequence 1 & DATABASE Geneseq [Online] 14 February 2002 (2002-02-14), "DNA encoding human adenine nucleotide translocator 1 (ANT1)." retrieved from EBI accession no. GSN:AAS16688 Database accession no. AAS16688</p>	19-40
X	<p>----- US 2003/099974 A1 (LILLIE JAMES ET AL) 29 May 2003 (2003-05-29) Genes associated with breast cancer as well as methods of assessing whether a patient is afflicted with breast cancer paragraphs [0241], [0313]; sequence 3437</p>	11-14, 19-40
A	<p>----- EP 0 836 096 A (SMITHKLINE BEECHAM CORPORATION; SMITHKLINE BEECHAM PLC) 15 April 1998 (1998-04-15) A method of diagnosing and monitoring colorectal cancer, by determining the expression level of HC gp-39 (= Human Cartilage glycoprotein 39) the whole document -----</p>	

INTERNATIONAL SEARCH REPORT

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PCT/GB2004/005078

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
claims 1-40 (all partially)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1: claims 1-40 (all partially)

Methods using the nucleic acid molecule (or encoded polypeptide) as represented by the first nucleic acid sequence as shown in Table 1; (use of) said nucleic acid molecule (or gene products); use of agents that modulate the activity of the polypeptide encoded by said nucleic acid

Inventions 2-17: claims 1-40 (all partially)

Methods using the nucleic acid molecule (or encoded polypeptide) as represented by nucleic acid sequences 2-17, respectively, as shown in Table 1; (use of) said nucleic acid molecule (or gene products); use of agents that modulate the activity of the polypeptide encoded by said nucleic acid molecule

INTERNATIONAL SEARCH REPORT

Inter: I Application No
PCT/GB2004/005078

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03058021	A	17-07-2003	AU 2003235789 A1 WO 03058021 A2	24-07-2003 17-07-2003
WO 0185944	A	15-11-2001	AU 6151801 A CA 2407886 A1 EP 1283884 A2 JP 2003532420 T WO 0185944 A2 US 2004241801 A1	20-11-2001 15-11-2001 19-02-2003 05-11-2003 15-11-2001 02-12-2004
US 2003099974	A1	29-05-2003	NONE	
EP 0836096	A	15-04-1998	US 5726061 A EP 0836096 A2 JP 10123139 A	10-03-1998 15-04-1998 15-05-1998